

FSIC-BP19 Beltpack

Wireless Solutions



FreeSpeak Icon Beltpack

Key Features and Benefits

Beltpack

- Functions with FreeSpeak Edge Base, Arcadia Central Station and Eclipse HX via E-IPA cards
- Supports up to 200 beltpacks on a single system (see Capacity Chart for details)
- TFT color display (120x480)
- 4 top buttons with individual level control
- 5 additional programmable buttons
- Rotary controls on both sides and up/down level controls
- Main volume control on bottom
- BLE (Bluetooth Low Energy) Radio
- Supports Bluetooth 5.3
- Built-in mic and speaker
- Built-in flashlight
- Drop-in and USB-C charging

Connectivity

- 1.9 GHz radio frequency
- Compatible with FSII E1 and IP transceivers
- 10 beltpacks per transceiver with the FSII IPT
- Low latency audio: < 35ms (70ms beltpack to beltpack)
- USB-C port for beltpack pairing and firmware updates and charging

Mechanical

- Curved shape fits to body
- IP54 rating for wet and dusty conditions

FreeSpeak Icon™ is a multi-channel, duplex digital wireless intercom system operating in the 1.9 GHz band and is part of the FreeSpeak® family of products.

Description

The FSIC-BP19 is a rugged, water-resistant multi-channel beltpack that operates in the 1.9 GHz frequency range, providing minimal latency, full-duplex connectivity, and highly comprehensible audio for usage in the most demanding settings. The beltpack has an ergonomic design with nine programmable keys, large color screen, dedicated A & B encoders, individual level controls for C & D, a dedicated master volume control, and a built-in mic and speaker station mode. The beltpack can be deployed on the same wireless network as the existing FreeSpeak II 1.9 GHz beltpack giving users two devices to utilize.

Technical Specifications

Audio

Audio Bandwidth: 200Hz-7.5KHz

No. of Full-Duplex Audio Paths: Up to 9 keys

Mode of Operation: Full duplex on all routes

Level/Talk Controls: 8 pushbuttons - A/B/C/D (top buttons) and 1/2/3/4 (front buttons), 1 reply button, 2 rotary encoders, 2 level up/down controls, and 1 (reprogrammable) main level control

Reply Button: 1

Bluetooth 5.3 Headset Profile

Bluetooth Codec: MSBC using HFP (Hands Free Profile)

Frequency Spectrum

USA, Canada: 1920-1930 MHz

Transceiver Range Output Power: 100mW

EU, Singapore, Hong Kong, Australia, New Zealand, South Africa: 1880-1900 MHz

Transceiver Range Output Power: 250mW

Japan: 1893-1906 MHz

Transceiver Range Output Power: 250mW

Connectors

Headset Connector: 4-pin male, Clear-Com standard, options for 5-pin female and 7-pin male with PTT

Headset Voltage: Maximum of ~+8dBu as set by firmware

Microphone Type: Electret and Dynamic, selectable in beltpack menu

Microphone Voltage:

Electret Mic: -40dBu

Mic bias for Electret mode is 4.4V

Dynamic Mic: -55dBu

Mic bias for Dynamic mode is 1.8V

Headset Limiter: Selectable from beltpack menu

Max Distance (Beltpack To Transceiver, Indoor): ~300-400ft (90-122m)

Max Distance (Beltpack To Transceiver, Outdoor): ~600-800ft (183-450m)

Power

Modulation: GFSK, TDMA frame 10ms Full and Long slot

Output: (EU/Russia) 10dBm average, (US) 18-20dBm

Battery: Li-Ion

Battery Charging: Drop-in charger (AC80) or local USB

Battery Life: 18+ hours

Environmental

IP54 water and dust resistance

Operating: 14°-125°F (-10°-50°C)

Storage: -22°-150°F (-30°-70°C)

Humidity: Between 20% and 90%, Non-Condensing

Dimensions

Tapered design at largest points

5.31 x 4.27 x 1.92in (WxHxD)

(134.87 x 108.46 x 48.77mm)

Weight

Without Battery: 12.31oz (349g)

With Battery: 16.23oz (460g)

Regulatory

Regulatory Model: 1414

FSIC-BP19 Beltpack

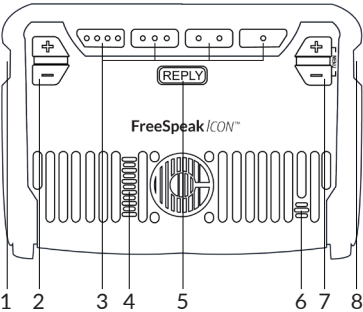
Wireless Solutions

Capacity Chart

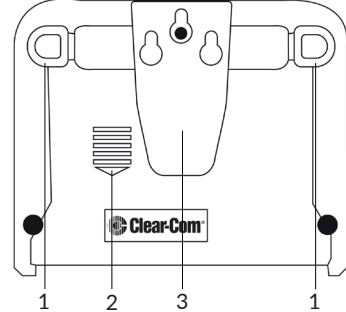
	Max Beltpacks	Max TCVRs	Max BPs per TCVR
FreeSpeak Edge Base	16	2 (E1) 10 (via 2 FSII-SPL) 6 (IP)	5 (E1) 10 (IP)
Arcadia Central Station	64	2 (E1) 10 (via 2 FSII-SPL) 32 (IP)	5 (E1) 10 (IP)
Eclipse HX (via E-IPA Cards)	192 Delta 200 Median/Omega	192 Delta (IP) or 30 (via 6 FSII-SPL) 256 Median (IP) or 40 (via 8 FSII-SPL) 320 Omega (IP) or 50 (via 10 FSII-SPL)	5 (E1) 10 (IP)

*Note: Each E-IPA Card supports either a) up to 64 beltpacks with 64 IP Transceivers or b) up to 50 beltpacks with 10 E1 Transceivers using 2 Splitters

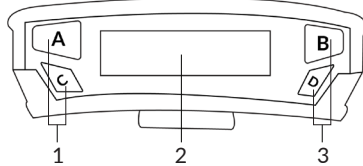
Front



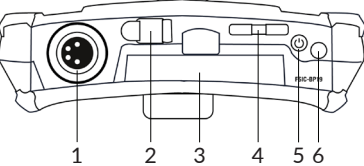
Back



Top



Bottom



Legend

Front

1. Rotary volume for Channel B
2. Channel D volume
3. 1-4 assignable keys
4. Speaker
5. Reply Key (assignable)
6. Mic
7. Channel C volume
8. Rotary volume for Channel A

Back

1. D ring loop
2. Battery Release Grip
3. Beltclip

Top

1. Buttons for A/C Channels
2. Display screen
3. Buttons for B/D Channels

Bottom

1. Headset connector
2. Door for USB-C port
3. Battery
4. Main volume
5. Power button
6. Flashlight

Order Codes

FSIC-BP19-X4
FSIC-BP19-X5
FSIC-BP19-X7

